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File: JPAB

Aug 28, 1991

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TITLE: CELL TRANSFER SYSTEM AND COMMUNICATION CONTROLLER ACCORDING TO THE SYSTEM

PUBN-DATE: August 28, 1991

## INVENTOR-INFORMATION:

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OKI ELECTRIC IND CO LTD

APPL-NO: JP01334873

APPL-DATE: December 26, 1989

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## ABSTRACT:

PURPOSE: To decrease a transmission delay time for retransmission control and to improve the utilizing efficiency and transmission quality by composing a packet frame into plural cells of a prescribed length, sending them and allowing a receiver side to check them in the unit of the cells.

CONSTITUTION: A sender side controller 3A outputs plural data having a destination address to a transmission section 4A of a communication controller 2A. The transmission section 4A discriminates data of one and same destination to form one or plural cells. Each cell consists of a header including a destination address and a check bit and a data, the cell is sent to a communication network 5 while being subject to self routing based on the header and reaches a reception section 6B of a communication controller 2B indicated by the destination address. The reception section 6B checks the address and the check bit of the received cell and outputs the result to a controller 3B when there is no error. When any error exists, the controller 3B allows the transmission section 4B to output a retransmission request and the sender side reception 6A receives it and the transmission section 4A reads the cell from the retransmission buffer and sends it to the communication network 5.

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